## PATENT ABSTRACTS OF JAPAN

(11) Publication number:

58-083184

(43) Date of publication of application: 18.05.1983

(51)Int.CI.

F28D 15/00

(21)Application number: 56-181467

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(22)Date of filing:

12.11.1981

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## (54) HEAT PIPE

## (57) Abstract:

PURPOSE: To enhance heat response property and reduce loss, by a method wherein a heat pipe is provided with one pipe end surface as a heat input surface and the other pipe end surface as a heat output surface, flat inside surfaces of both end sealing plates are reinforced by a plurality of parallel fins, and ends of grooves formed between the fins make contact with the inside wall of a heat pipe container.

CONSTITUTION: The end sealing plate 1 on the heat output surface side and the end sealing plate 2 on the heat input surface side which constitute both ends of the heat pipe container 3 are constituted of a plurality of parallel fins, the plate 1 makes contact with a heat sink

- 6, and the plate 2 makes contact with a heating element
- 8. A hollow pipe 4 is provided between the end sealing plates 1 and 2 to reinforce the plates
- 1, 2 and promotes the recirculation of a working fluid. Since the parallel fins are used as end sealing plates, heat-exchanging efficiency is enhanced, flow resistance of the fluid is reduced, and the recirculating speed of the fluid is enhanced.

## **LEGAL STATUS**

[Date of request for examination]

[Date of sending the examiner's decision of

PAT-NO:

JP358083184A

DOCUMENT-IDENTIFIER: JP 58083184 A

TITLE:

HEAT PIPE

PUBN-DATE:

May 18, 1983

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APPL-NO: JP56181467

APPL-DATE:

November 12, 1981

INT-CL (IPC): F28D015/00

US-CL-CURRENT: 165/104.21, 165/104.33

ABSTRACT:

PURPOSE: To enhance heat response property and

reduce loss, by a method

wherein a heat pipe is provided with one pipe end

surface as a heat input

04/29/2004, EAST Version: 1.4.1

surface and the other pipe end surface as a heat output surface, flat inside surfaces of both end sealing plates are reinforced by a plurality of parallel fins, and ends of grooves formed between the fins make contact with the inside wall of a heat pipe container.

CONSTITUTION: The end sealing plate 1 on the heat output surface side and the end sealing plate 2 on the heat input surface side which constitute both ends of the heat pipe container 3 are constituted of a plurality of parallel fins, the plate 1 makes contact with a heat sink 6, and the plate 2 makes contact with a heating element 8. A hollow pipe 4 is provided between the end sealing plates 1 and 2 to reinforce the plates 1, 2 and promotes the recirculation of a working fluid. Since the parallel fins are used as end sealing plates, heat-exchanging efficiency is enhanced, flow resistance of the fluid is reduced, and the recirculating speed of the fluid is enhanced.

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